



# Anti-CD44 monoclonal antibody, clone IM7 (CABT-46111RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti Mouse CD44 antibody, clone IM7 recognizes CD44, a cell surface receptor for hyaluronic acid, although it can also interact with other ligands such as collagens and matrix metalloproteinases. It plays a role in a variety of cellular functions, such as adhesion, lymphocyte activation and lymph node homing. It is also involved in cell migration and plays a role in tumour metastasis. The protein has many distinct isoforms responsible for its functional diversity. Rat anti Mouse CD44 antibody, clone IM7 recognizes all isoforms of CD44 and has been reported to inhibit a delayed-type hypersensitivity response in vivo and to induce complement-mediated cytotoxicity. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

<b>Specificity</b>	CD44
<b>Immunogen</b>	Dexamethasone-induced myeloid leukaemia M1 cells
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse, Baboon, Bovine, Cat, Cynomolgus monkey, Dog, Ferret, Horse, Human, Mustelid, Pig, Rhesus monkey
<b>Clone</b>	IM7
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; ELISA; FC; IP; IHC-P
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	250 µg

<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cd44 CD44 antigen [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	CD44
<b>Synonyms</b>	CD44; CD44 antigen; Ly-24; Pgp-1; HERMES; AU023126; AW121933; AW146109; PGP-I; HUTCH-I; ECMR-III; hermes antigen; hyaluronate receptor; lymphocyte antigen 24; phagocytic glycoprotein 1; phagocytic glycoprotein I; extracellular matrix receptor III; GP90 ly
<b>Entrez Gene ID</b>	<a href="#">12505</a>
<b>Protein Refseq</b>	<a href="#">NP_001034239</a>
<b>UniProt ID</b>	P15379
<b>Chromosome Location</b>	2 E2; 2 54.13 cM
<b>Pathway</b>	Cell surface interactions at the vascular wall; Cytokine Signaling in Immune system; Defective B3GAT3 causes JDSSDHD; Defective B4GALT1 causes B4GALT1-CDG (CDG-2d); Defective B4GALT7 causes EDS, progeroid type; Defective CHST14 causes EDS, musculocontractural type; Defective CHST3 causes SEDCJD; Defective CHST6 causes MCDC1;
<b>Function</b>	contributes_to cytokine binding; contributes_to cytokine receptor activity; epidermal growth factor receptor binding; hyaluronic acid binding; hyaluronoglucosaminidase activity; phosphoprotein binding; protein binding; protein kinase binding;